

CLAIMS:

1. A forward converter, comprising: a first rectifier circuit having a first output; a second rectifier circuit having a second output; wherein a first switch is provided in the first rectifier circuit; and
5 wherein a second switch is provided in the second rectifier circuit; wherein, by switching the first and second switches, the first and second outputs may be selectively switched off.
- 10 2. The forward converter of claim 1, wherein a third rectifier circuit is provided; wherein the third rectifier circuit is connected to the first rectifier circuit by a coupled inductor.
- 15 3. The forward converter of claim 1, wherein the first and second rectifier circuits each have a winding; wherein the windings of the first and second rectifier circuits are associated with the same transformer.
- 20 4. The forward converter of claim 1, wherein the forward converter is adapted for connection to a device; wherein, when the first switch is closed and the second switch is open, the first rectifier provides an operation voltage for the device; and
25 wherein, when the first switch is open and the second switch is closed, the second rectifier provides a standby-by voltage for the device.

5. The forward converter of claim 4,
wherein the forward converter is part of a PC power supply and the
device is a PC.
- 5 6. The forward converter of claim 1,
wherein the forward converter is adapted for connection to a device;
wherein, when the first switch is closed and the second switch is open,
the first rectifier provides an operation voltage for the device;
10 wherein, when the first switch is open and the second switch is closed,
the second rectifier provides a standby-by voltage for the device;
wherein a fourth rectifier circuit is provided;
wherein a third switch is provided in a connection between the fourth
rectifier circuit and the second rectifier circuit;
15 wherein the third switch is closed during operation when the first
rectifier
circuit provides the operation voltage and
wherein the third switch is open during operation when the second
rectifier circuit provides the stand-by voltage.
- 20 7. The forward converter of claim 1,
wherein the first switch is a bi-directional switch.
8. Method of operating a forward converter, the forward converter having a
25 first rectifier circuit having a first output and a second rectifier circuit having a second
output,
wherein a first switch is provided in the first rectifier circuit, and
wherein a second switch is provided in the second rectifier circuit, the
method comprising the step of
30 selectively switching off the first and second outputs by switching the
first and second switches.

9. The method of claim 8, wherein a third rectifier circuit is provided, the method further comprising the step of:

5 operating the third rectifier circuit and the first rectifier circuit by a coupled inductor.

10. The method claim 8,
wherein, when the first switch is closed and the second switch is open,
10 the first rectifier provides an operation voltage for a device; and
wherein, when the first switch is open and the second switch is closed,
the second rectifier provides a standby-by voltage for the device.

11. The method of claim 8, wherein the forward converter is adapted for
15 connection to a device,
wherein, when the first switch is closed and the second switch is open,
the first rectifier provides an operation voltage for the device,
wherein, when the first switch is open and the second switch is closed,
the second rectifier provides a standby-by voltage for the device,

20 wherein a fourth rectifier circuit is provided, wherein a third switch is provided in a connection between the fourth rectifier circuit and the second rectifier circuit, the method further comprising the step of:

operating the third switch such that it is closed during operation when
the first rectifier circuit provides the operation voltage and open during operation when
25 the second rectifier circuit provides the stand-by voltage.